# Unique C4I Platforms

## AIR BUOYANT SYSTEMS

Presented by

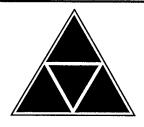
Information Systems Division





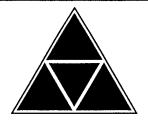
# Air Buoyant Systems (ABS)

- Unmanned Dirigibles Carrying a Platform for C4I Systems
- Theater-wide Coverage with Fiber Optic Performance
- Operating Above 100,000 Ft.
- Recoverable for Technology
  Upgrades vs. Stranded Investment



# ABS Technology

- Proven in the Early 70's but With Limited Deployments
- Increased Bandwidth Capacity
  Versus Traditional Satellite
- Less Sophisticated User Terminals
  With Smaller Footprint and Lower
  Operations & Maintenance Costs



## Alternatives to ABS

- Traditional Satellites
- Low Earth Orbit Satellites
- Copper Land Lines
- Fiber Optic Land Lines
- Microwave Systems
- Traditional RF Systems
- Predator-Type Unmanned Aircraft



# Components of ABS

## Earth Station (Gateway)

- Antenna, Power Plant, Transmitter
- Smaller Means Increased Mobility

#### Airborne Platform

- Dirigible and Propulsion System
- C4I Systems Payload
- Station Keeping System
- Power Plant



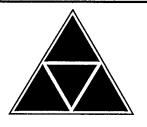
# Components of ABS

#### User Terminals

- Antenna, Transmitter
- Data Laptops, Workstations, Networks
- Video Workstations, Projection Devices
- Voice POTS, Microphones, Speakers

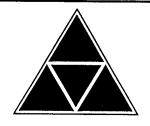
### Operations Center

- Network Management
- Station Keeping
- Maintenance



## Benefits of ABS

- Increased Data Capacity to Areas
  With Limited or No Service
- Cost Effective vs. the Alternatives
- Easily Repositioned
- Easily Maintained



## Benefits of ABS

- Heavy Lift Allows Redundancy and Higher Reliability
- Can Carry Other Intelligence Gathering Packages
- Above Most Air Defense Umbrellas